Jorge Querol

List of Publications by Year
in descending order

45 papers	815 citations	623734 14 h-index	713466 21 g-index
45 all docs	45 docs citations	45 times ranked	566 citing authors

#	Article	IF	Citations
1	Machine Learning for Radio Resource Management in Multibeam GEO Satellite Systems. Electronics (Switzerland), 2022, 11, 992.	3.1	15
2	Architectures and Synchronization Techniques for Distributed Satellite Systems: A Survey. IEEE Access, 2022, 10, 45375-45409.	4.2	14
3	Satellite Communications in the New Space Era: A Survey and Future Challenges. IEEE Communications Surveys and Tutorials, 2021, 23, 70-109.	39.4	447
4	Random Access Procedure Over Non-Terrestrial Networks: From Theory to Practice. IEEE Access, 2021, 9, 109130-109143.	4.2	14
5	A design strategy for phase synchronization in Precoding-enabled DVB-S2X user terminals. , 2021, , .		3
6	System Modeling and Design Aspects of Next Generation High Throughput Satellites. IEEE Communications Letters, 2021, 25, 2443-2447.	4.1	14
7	A Remote Carrier Synchronization Technique for Coherent Distributed Remote Sensing Systems. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1909-1922.	4.9	3
8	A Pre-Correlation RFI Mitigation Algorithm for L-Band Interferometric Radiometers. , 2021, , .		1
9	A Cubesat-Ready Phase Synchronization Digital Payload for Coherent Distributed Remote Sensing Missions. , 2021, , .		1
10	Centralized Gateway Concept for Precoded Multi-beam GEO Satellite Networks. , 2021, , .		11
11	L-Band Vegetation Optical Depth Estimation Using Transmitted GNSS Signals: Application to GNSS-Reflectometry and Positioning. Remote Sensing, 2020, 12, 2352.	4.0	15
12	Implementation of a Testbed for GNSS-R Payload Performance Evaluation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2708-2715.	4.9	4
13	Radio-Frequency Interference Location, Detection and Classification Using Deep Neural Networks. , 2020, , .		1
14	The Global Navigation Satellite Systems Reflectometry (GNSS-R) Microwave Interferometric Reflectometer: Hardware, Calibration, and Validation Experiments. Sensors, 2019, 19, 1019.	3.8	9
15	A Review of RFI Mitigation Techniques in Microwave Radiometry. Remote Sensing, 2019, 11, 3042.	4.0	25
16	Spaceborne GNSS-R End-To-End Simulator: Topography and Vegetation Effects. , 2018, , .		3
17	RFI Analysis and Mitigation in Airborne GNSS-R Campaign. , 2018, , .		1
18	3CAT-3/MOTS, an Experimental Nanosatellite for Multispectral and GNSS-R Earth Observation: Airborne Optical and GNSS-R Campaign. , 2018, , .		0

#	Article	IF	Citations
19	Wind Direction Signatures in GNSS-R Observables from Space. Remote Sensing, 2018, 10, 198.	4.0	16
20	Performance Assessment of Time–Frequency RFI Mitigation Techniques in Microwave Radiometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3096-3106.	4.9	22
21	A Generic Level 1 Simulator for Spaceborne GNSS-R Missions and Application to GEROS-ISS Ocean Reflectometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4645-4659.	4.9	24
22	A radio-frequency interference detector for GNSS navigation and GNSS-reflectometry applications. , 2017, , .		2
23	SNR and Standard Deviation of cGNSS-R and iGNSS-R Scatterometric Measurements. Sensors, 2017, 17, 183.	3.8	6
24	MERITXELL: The Multifrequency Experimental Radiometer with Interference Tracking for Experiments over Land and Littoral–Instrument Description, Calibration and Performance. Sensors, 2017, 17, 1081.	3.8	2
25	DME/TACAN Impact Analysis on GNSS Reflectometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4611-4620.	4.9	15
26	Assessment of DME/TACAN RFI mitigation techniques in GNSS-R. , 2016, , .		2
27	Preliminary results of FENIX: Front-End GNSS Interference eXcisor. , 2016, , .		4
28	Crosstalk Statistics and Impact in Interferometric GNSS-R. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4621-4630.	4.9	11
29	On the Correlation Between GNSS-R Reflectivity and L-Band Microwave Radiometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5862-5879.	4.9	18
30	Comparison of real-time time-frequency RFI mitigation techniques in microwave radiometry. , 2016, , .		2
31	First Delay Doppler Maps obtained with the Microwave Inteferometric Reflectometer (MIR). , 2016, , .		1
32	SNR Degradation in GNSS-R Measurements Under the Effects of Radio-Frequency Interference. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4865-4878.	4.9	21
33	Impact of multi-path by ISS structure on GEROS-ISS measured waveforms. , 2016, , .		0
34	Improvement of PAU/PARIS end-to-end performance simulator (P^{2}EPS): Land scattering including topography. , 2016, , .		7
35	Altimetric performance of the GEROS experiment at the ISS. , 2016, , .		0
36	Can we measure vegetation water content and vegetation opacity at L-band with a single GPS receiver?. , 2016, , .		4

#	Article	IF	Citations
37	First Results of a GNSS-R Experiment From a Stratospheric Balloon Over Boreal Forests. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2652-2663.	6.3	41
38	Advances in the MIR instrument: Integration, control subsystem and analysis of the flight dynamics for beamsteering purposes. , 2015, , .		5
39	Assessment of back-end RFI mitigation techniques in passive remote sensing. , 2015, , .		9
40	Two dedicated soil moisture experiments using the scatterometric properties of GNSS-reflectometry. , 2015, , .		1
41	A stratospheric balloon GNSS-R experiment: The <sup>3</sup>Cat-2 project in DLR/SNSB BEXUS. , 2014, , .		2
42	Review of GNSS-R instruments and tools developed at the Universitat Politecnica de Catalunya-Barcelona tech. , 2014, , .		0
43	Study of RFI signals in protected GNSS bands generated by common electronic devices: Effects on GNSS-R measurements. , 2014, , .		3
44	Real-Time RFI Detection and Mitigation System for Microwave Radiometers. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4928-4935.	6.3	15
45	Digital back-end for RFI detection and mitigation in earth observation. , 2013, , .		1